

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number		10626420
Filing Date		2003-07-24
First Named Inventor	Sheueling Chang Shantz	
Art Unit	2436	
Examiner Name	Johnson, Carlton	
Attorney Docket Number	6000-32301	

## **U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5347481			Lambert, et al.	
	2	6049815			Lambert, et al.	
	3	6199087			Blake, et al.	
	4	6763365			Chen, et al.	
	5	4863247			Lasher, et al.	
	6	6687725			Chen, et al.	
	7	7240084			Gura, et al.	
	8	7346159		2008-03-18	Gura, et al.	

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	9	7461115		2008-12-02	Eberle, et al.	
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#### U.S.PATENT APPLICATION PUBLICATIONS

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	1	20030123654			Lambert, et al.	
	2	20030123655			Lambert, et al.	
	3	20020044649			Gallant, et al.	
	4	20040158597			Ye, et al.	

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1	U.S. Application Serial No. 11/625,659 filed 1/22/07.	<input type="checkbox"/>
2	U.S. Application Serial No. 10/789,311 filed 2/27/04.	<input type="checkbox"/>
3	U.S. Application Serial No. 12/256,295 filed 10/22/08.	<input type="checkbox"/>
4	U.S. Application Serial No. 10/387,007 filed 3/11/03.	<input type="checkbox"/>
5	U.S. Application Serial No. 10/996,103 filed 11/23/04.	<input type="checkbox"/>
6	ERDEM, et al., "A Less Recursive Variant of Karatsuba-Ofman Algorithm for Multiplying Operands of Size a Power of Two," Proceedings of the 16th IEEE Symposium on Computer Arithmetic (ARITH-16'03), June 15-18, 2003.	<input type="checkbox"/>
7	Gupta, V., et al, "Speeding up Secure Web Transactions Using Elliptic Curve Cryptography," Sun Microsystems, Inc., <a href="http://research.sun.com/projects/crypto/">http://research.sun.com/projects/crypto/</a> , 9 pages.	<input type="checkbox"/>
8	Comba, P.G., "Exponentiation Cryptosystems on the IBM PC," IBM Systems Journal, Vol. 29, No. 4, 1990, pp. 526-538.	<input type="checkbox"/>
9	Kaliski, Burt, "TWIRL and RSA Key Size," Technical Notes, May 1, 2003, RSA Laboratories, 5 pages, downloaded from Internet <a href="http://www.orsasecurity.com/rsalabs/node.asp?id=2004">http://www.orsasecurity.com/rsalabs/node.asp?id=2004</a> as of September 13, 2006.	<input type="checkbox"/>
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11	Karatsuba, A., et al., "Ymnozhenie mnogozhachnix chisel na avtomatax," Doklady Academi Nauk SSSR, Vo. 145. No. 2, pp. 293-294, 1962.	<input type="checkbox"/>

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12	Hankerson, et al., "Guide to Elliptic Curve Cryptography," pp. 48-53, 95-113, 129-147, 205-212 and 224-226, Springer-Verlag, 2004.	<input type="checkbox"/>
13	Cohn, Leonard Allen, "Generate-Propagate Adders," ChoPP Computer Corporation, prior 2000, pp. 1-16.	<input type="checkbox"/>
14	Mano, M. Morris, "Computer System Architecture," Prentice-Hall, Inc., 1976, pp. 244-249.	<input type="checkbox"/>
15	Guajardo, et al., "Efficient Algorithms for Elliptic Curve Cryptosystems," ECE Dept., Worcester Polytechnic Institute, pp. 1-16 (CRYPTO '97, Springer-Verlag, LNCS 1294, pp. 342-356, 1997).	<input type="checkbox"/>
16	Weimerskirch, et al., "Generalizations of the Karatsuba Algorithm for Polynomial Multiplication," Communication Security Group, Dept. of Electrical Engineering & Information Sciences, Ruhr-Universitat, Germany, March 2002, pp. 1-23.	<input type="checkbox"/>
17	Blake-Wilson, S., "Additional ECC Groups for IKE", IPsec Blake-Wilson, Dierks, Hawk-Working Group, July 23, 2002, pp. 1-17.	<input type="checkbox"/>
18	Gupta, V., "ECC Cipher Suites for TLS," Blake-Wilson, Dierks, Hawk – TLS Working Group, August 2002, pp. 1-31.	<input type="checkbox"/>
19	"RFC 2246 on the TLS Protocol Version 1.0", <a href="http://www.ietf.org/mail-archive/ietf-announce/Current/msg02896.html">http://www.ietf.org/mail-archive/ietf-announce/Current/msg02896.html</a> , March 26, 2003, 2 pages, including Dierks, T., "The TLS Protocol Version 1.0", Dierks & Allen, January 1999, pp. 1-80.	<input type="checkbox"/>
20	Song, et al., "Low-Energy Digit-Serial/Parallel Finite Field Multipliers," Journal of VLSI Signal Processing 19, 1988, pp. 149-166.	<input type="checkbox"/>
21	Agnew, et al., "An Implementation of Elliptic Curve Cryptosystems Over F <sub>2</sub> <sup>155</sup> ," IEEE Journal on Selected Areas on Communications, Vol. 11. No. 5, June 1993, pp. 804-813.	<input type="checkbox"/>
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23	Yanik, et al., "Incomplete Reduction in Modular Arithmetic," IEEE Proc.-Comput. Digit. Tech., Vol. 149, No. 2, March 2002, pp. 46-52.	<input type="checkbox"/>
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25	Orlando, et al., August 2000, "A High-Performance Reconfigurable Elliptic Curve Processor for GF(2m)," CHES 2000 Workshop on Cryptographic Hardware and Embedded Systems, Springer-Verlag, Lecture Notes in Computer Science, 1965, pp. 41-56.	<input type="checkbox"/>
26	Lopez, et al., August 1999, "Fast Multiplication on Elliptic Curves over GF(2m) without Precomputation," CHES 1999 Workshop on Cryptographic Hardware and Embedded Systems, Springer-Verlag, Lecture Notes in Computer Science, 1717, pp. 316-327.	<input type="checkbox"/>
27	Hankerson, et al., August 2000, "Software Implementation of Elliptic Curve Cryptography over Binary Fields," CHES 2000 Workshop on Cryptographic Hardware and Embedded Systems, Springer-Verlag, Lecture Notes in Computer Science, 1965, pp. 1-24.	<input type="checkbox"/>
28	Koblitz, Neal, "Elliptic Curve Cryptosystems," Mathematics of Computation, Vo. 48, NO. 177, January 1987, pp. 203-209.	<input type="checkbox"/>
29	Schroeppel, et al., 1995, "Fast Key Exchange with Elliptic Curve Systems," Advances in Cryptography, Crypto '95, Springer-Verlag, Lecture Notes in Computer Science 963, pp. 43-56.	<input type="checkbox"/>
30	Gao, et al., "A Compact Fast Variable Key Size Elliptic Curve Cryptosystem Coprocessor," Proceedings of the Seventh Annual IEEE Symposium on Field-Programmable Custom Computer Machines, 1998.	<input type="checkbox"/>
31	Miller, V., "Use of Elliptic Curves of Cryptography," In Lecture Notes in Computer Science 218, Advances in Cryptology, CRYPTO '85, pp. 417-426, Springer-Verlag, Berling, 1986.	<input type="checkbox"/>
32	Itoh, et al., "A Fast Algorithm for Computer Multiplicative Inverses in GF(2m) Using Normal Bases," Informaiton and Computation, Vol. 78, NO. 3, 1988, pp. 171-177.	<input type="checkbox"/>
33	Bednara, et al., "Reconfigurable Implementation of Elliptic Curve Crypto Algorithms," Proceedings of the International Parallel and Distributed Processing Symposium, IEEE Computer Society, 2002, 8 pages.	<input type="checkbox"/>

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34	U.S. Dept. of Commerce/National Institute of Standards and Technology, "Digital Signature Standard (DSS)," Federal Information Processing Standards Publication, January 27, 2000, pp. 1-74.	<input type="checkbox"/>
35	Blake-Wilson, et al, "ECC Cipher Suites for TLS," Blake-Wilson, Dierks, Hawk—TLS Working Group, March 15, 2001, pp. 1-22.	<input type="checkbox"/>
36	Goodman, et al., "An Energy-Efficient Reconfigurable Public-Key Cryptography Processor," IEEE Journal of Solid-State Circuits, Vol. 36, No. 11, November 2001, pp. 1808-1820.	<input type="checkbox"/>
37	Ernst, et al., "Rapid Prototyping for Hardware Accelerated Elliptic Curve Public-Key Cryptosystems," 12th IEEE Workshop on Rapid System Prototyping, Monterey, CA June 2001, pp. 24-29.	<input type="checkbox"/>
38	Blake, et al., "Elliptic Curves in Cryptography," London Mathematical Society Lecture Note Series 265, Cambridge University Press, UK, 1999, pp. vii-204.	<input type="checkbox"/>

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